

On behalf of the REASON doctoral school at the Munich Center of the Learning Sciences (MCLS) we are very happy to announce:

Workshop on Systematic Reviews and Meta-Analyses: A Practical Approach

held by **David A. Cook, MD, MHPE**
Mayo Clinic College of Medicine and Science
Monday 28.05.2018, 9:00 s.t. - 16:00, Room 3221

Systematic reviews play a key role in evidence-based practice, and writing a review article is often a first step in beginning a new line of research. But there's a lot more to conducting a high-quality systematic review than meets the eye. Meta-analysis is often (but not always) helpful in synthesizing the results of a systematic review. During this interactive session, Dr. David Cook will present practical steps for planning and conducting a systematic review, and outline a conceptual approach to determining when and how to perform a meta-analysis. Participants will engage in a "hands-on" approach, critiquing and revising an actual systematic review.

Participants are strongly encouraged to bring a draft manuscript or study protocol for a systematic review they are doing or would like to do, and will use this for the hands-on activity. (We will provide a manuscript for those who do not bring their own.)

At the conclusion of this workshop, participants will be able to:

- Distinguish a systematic review from other types of review articles, and explain when a systematic review would be useful;
- Implement a six-step practical approach to plan and execute a systematic review;
- Justify situations in which a meta-analysis might help in synthesizing results;
- Interpret the results of a meta-analysis including different approaches to pooling results, estimating heterogeneity, and evaluating for publication bias; and
- Describe key elements for reporting a systematic review and meta-analysis.

Workshop Timeplan:

9:00-12:00 Workshop Part 1

12:00-13:00 Lunch break

13:00-16:00 Workshop Part 2

! Dr. David Cook will also hold a guest lecture on “Validity arguments for learner assessments: Could the evidence convince a jury?” on Tuesday 29.05.2018, 14:00 c.t. -16:00, Room 3221. Further information available on the REASON webpage.

Short bio



David Cook is

- Professor of Medicine and Medical Education in the Mayo Clinic College of Medicine,
- Director of Education Science in the Mayo Office of Applied Scholarship and Education Science,
- Associate Director for Data, Analytics, and Quality in the Mayo Clinic School of Continuous Professional Development,
- Research Chair for the Mayo Multidisciplinary Simulation Center,
- A practicing physician specializing in the diagnosis and treatment of complex medicine problems,
- Deputy Editor for the journal Medical Education,
- Editorial board member for the journals Advances in Health Sciences Education and Simulation in Healthcare.

Dr. Cook received a B.S. in chemistry from Utah State University and an M.D. from the Johns Hopkins University School of Medicine before coming to the Mayo Clinic, where he completed residency in Internal Medicine, a fellowship in General Internal Medicine, and joined the staff in 2004. He subsequently completed a Masters degree in Health Professions Education through the University of Illinois at Chicago - Department of Medical Education.

Dr. Cook's research interests include the theory and design of online learning and other educational technologies, the quality of medical education research methods and reporting, clinical reasoning, and assessment of clinical performance. He has developed and studied multiple online courses for residents and medical students, conducted several systematic reviews, presented at numerous national and international conferences, and published over 160 journal articles and book chapters on medical education topics. He is also the Scoutmaster for his younger son's Boy Scout troop, and serves as a youth leader in the Church of Jesus Christ of Latter-Day Saints. He and his wife Jennifer are the parents of five incredibly wonderful children.

We are looking forward to welcoming many interested participants!

Please register at reason-enb@psy.lmu.de